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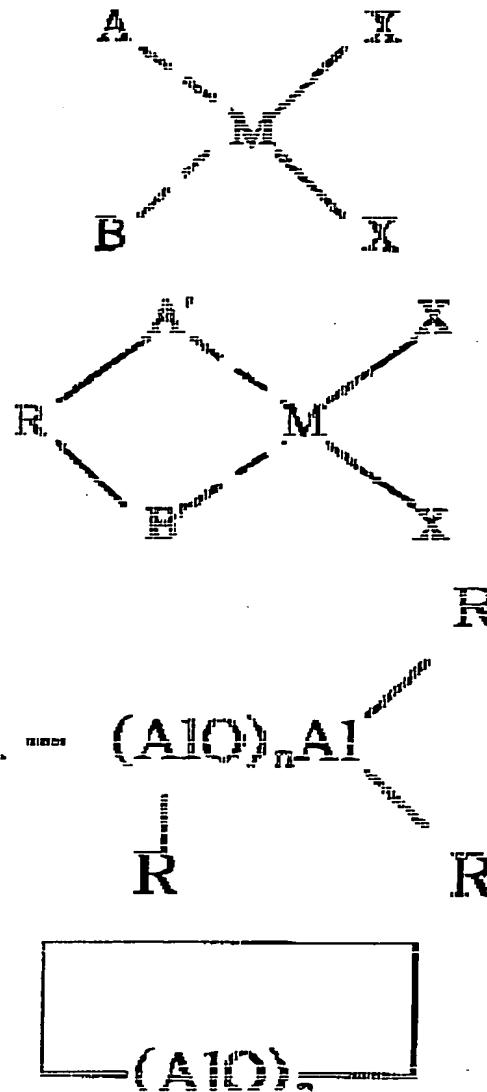
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**(54) OLEFIN
POLYMERIZATION
CATALYST AND
PRODUCTION OF
POLYOLEFIN USING THE
CATALYST**

(57) Abstract:

PURPOSE: To provide a catalyst for polymerization of olefin composed of a specific transition metal compound, an aluminoxane and a hindered phenol compound having phenolic hydroxyl group and capable of producing a polyolefin in high productivity and high catalytic activity.

CONSTITUTION: The catalyst is produced by compounding (A) a transition metal compound expressed by formula I (A and B are univalent or bivalent unsaturated hydrocarbon group or ligand containing N, O, Si, P, S, etc., bonded to M; M is atom of metal of the group 4 or group 5 of the periodic table; X is ligand containing halogen, C, N, O, Si, B, P, S, etc.) or formula II (A' and B' are univalent or bivalent unsaturated hydrocarbon group or ligand containing N, O, P, S, etc.; R is bivalent residue containing N, O, Si, P or S or hydrocarbon group) with (B) an aluminoxane expressed by formula III (R is 1-4C hydrocarbon group; n is 1-50) or formula IV and produced by



formula IV and produced by hydrolyzing a trialkylaluminum with water and (C) a hindered phenol compound having bulky substituents at α and α' sites of a phenolic hydroxyl group.

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